We claim:

1. A composition for use in forming a polymeric stent for insertion into a vessel, comprising

between 10-98% of a first monomer composed of an aliphatic ester Cl-C50 of acrylic acid which when homopolymerized has a glass transition temperature lower than about 25°C; and

a second monomer having sites of unsaturation and capable of copolymerization with the first monomer, the second monomer when homopolymerized having a glass transition temperature greater than 25°C,

said monomers when polymerized in the presence of a crosslinker forming a polymer having a glass transition temperature of less than about 25°C.

- 2. The composition of claim 1, wherein the first monomer is an aliphatic ester of acrylic acid.
 - 3. The composition of claim 1, wherein the first monomer is fluorinated.
- 4. The composition of claim 1, wherein the first monomer is selected from butyl acrylate and pentafluoropropylacrylate.
- 5. The composition of claim 1, wherein said second monomer is an ester of methacrylic acid or an ester of acrylic acid.
- 6. The composition of claim 1, wherein the second monomer is selected from the group consisting of methylmethacrylate, isobornyl methacrylate, isobutyl methacrylate, perfluoroacetylmethacrylate, tertiary butylmethacrylate, phenylethylmethacrylate, styrene, hydroxyethyl methacrylate, glycerol methacrylate, n-vinyl pyrrolidone and heptadecylfluorodecyl-methacrylate.
- 7. The composition of claim 1, which further includes a third monomer of a methacrylic acid ester of polyethylene oxide, where the ester side chain has a molecular weight of between 200-10,000 Daltons.
- 8. The composition of claim 7, wherein the third monomer is selected from the group consisting of polyethyleneglycol dimethacrylate, polyethyleneglycol methacrylate and polyethyleneglycol acrylate.
- 9. The composition of claim 7, wherein the first monomer is butyl acrylate, the second monomer is methylmethacrylate and the third monomer is polyethylene glycol methacrylate.

- 10. The composition of claim 1, wherein the first monomer is pentafluoropropylacrylate and the second monomer is heptadecylfluorodecyl methacrylate.
- 11. The composition of claim 7, wherein the first monomer is pentafluoropropylacrylate and the second monomer is methylmethacrylate and the third monomer is polyethylene glycol methacrylate.
- 12. A stent composed of the composition of claim 1, said stent including a therapeutic agent.
 - 13. A composition for use in forming a stent for insertion into a vessel, comprising
- (a) greater than about 40 weight percent of pentafluoropropyl acrylate monomer;
- (b) between 3-30 weight percent of (heptadecylfluorodecyl methacrylate) monomer;

said composition when polymerized forming a polymer having a glass transition temperature of less than 25°C.

- 14. A composition for use in forming a stent for insertion into a vessel, comprising
- (a) greater than about 40 weight percent of pentafluoropropyl acrylate monomer;
- (b) between 3-30 weight percent of polyethylene glycol methacrylate monomer or polyethyleneglycol monomethylether methacrylate monomer; and
- (c) between 2-40 weight percent of methylmethacrylate monomer; said composition when polymerized forming a polymer having a glass transition temperature of less than 25°C.